

Title	Omoituita mama I
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1

Kami no ue no Danwakwai mo 2-gô ga dete daibu Yôsu ga wakatte kita. Boku mo nani ka kakitai ga Byôin no Beddo ni sibaritukerarete itan'dyâ matomatta mono mo kakenai. Atama no Hataraki mo nibutta yôda. Tada Ki ga tuita koto wo sukosi nobesasete morau koto ni sita.

Happyô sareta mono dore mo kekkô. Daga mō sukosi kudaketa kaki-buri no mono ga attemo yoin'dyâ nai darô ka? Kudakeru to iu koto wo yosetsu, wakariyasuku suru, sore ga Senmonka no Ude dyâ nai ka? Tayasutitika dukenai yô na ikameshi Isyôwo tukete Sirôto wo Soba e yosetukenai de Gakumon no Igon ga tamotareru to kangaeru kata wa osoraku arimasumai. "Elementary" to iu koto wo kirattani keibetusitari suru koto wa yokunai. Senmontekina Kotogara wo Sirôto nimo wakaru yôni kudaite kaku koto wa nozomashi koto da. Syômei no Genmitu to iu koto mo taisetu ni tiginai. Sikasi genmituna Syômei ga erareta kara sorede wakatta to iu koto ni naryâ sinai. Wakariyasuku setumeisuru tame niwa keisikitekina Genmitusa wa Gisei ni sitemo yoi darô. Kangae no Sudimiti datte Genmitusa ni otorazu taisetu da. Kotonî Kami no Ue datte Danwakwai nan'da kara.

2

Zyôbibunhôteisiki-ron ni oite Kai no Sonzai-teiri ga motu Dyûyôsa ni Igi no aru Kata wa nai darôto omou. Danonî boku wa sore wo sarani tuyoku sakebitai. Senmonka wa iu madomonai, Senmonka de nakuttemo Bibunhôteisiki wo ziyûni ôyôsiyô to suru Zisshaika mo Kai no Sonzai-teiriga motu Mouti wo hakkiri siranakereba ikenain'dyâ nai darô ka? Atarerareta Hôteisiki wo manzoku

Sore no Syûrensei wa yoku "séries majorantes" ni yotte tasikame
 rareru. Sore ga syûrensuru koto ga wakareba yoi ga, syûren,
 sinai Baai datte ikuramo aru. Sonna toki donna Toriatukai wo
 site ita darô ka? Kai wo Teisekibun no Katati de arawasitari
 itomo takumina Hôhō wo tukatte iru. Sikasi itumo sonna taku-
 mina Gikō wo kangaedasu Atama wa boku niwa nai kara, motto
 itudemo tukaeru. Hôhō ga hosii. Sô iu mono ga mitukareba, Bibun-
 hôteisiki ga mae yori tayasuku atukaeru yôni narun'dya nai darô
 ka? Sokode boku ga tukau Zyôtôsyudan wo setumeisiiyô!

$$y \sim a_0 + a_1x + a_2x^2 + \dots + a_nx^n + \dots$$

ga ataorareta Hôteisiki wo keisikitekini manzokusuru to siyô.
 Kore ga Kai no Kinzitenkai ni naru koto wo syômeisuru niwa
 kattena Seisû ni taisite

$$|y - (a_0 + a_1x + \dots + a_nx^n)| \leq Kx^{n+1}$$

(K wa Zyôsu)

wo manzokusuru Kai ga aru ka dō ka wo Kai no Sonzai-teiri ni
 yotte siraberu no de aru. Nanno Hentetu mo nai Kangaekata de
 aru. Sore dake ippanmuki dyâ nai darôka? Tada kô iu Baai ni
 riyôsareru no da kara, Kai no Sonzaiteiri wo dekiru dake seimitu
 ni suru Hituyô ga aru. Cauchy no Sonzaiteiri ni kôdeisite itan'
 dyâ, Bibunhôteisiki no Kai no Seisitu wo siraberu no ni Kai no
 Sonzai-teiri nado Yaku ni tatanai to iwaretatte Sikata ga arumai.
 Kono Mondai wa idure mata Hude wo aratamete nobete mitai to omou.

Mammana to ka iu Hito no Ronbun wo mita Wake de nai kara
 wakaranai ga, Nakano Udi ga iu tōri 冗長複雑 dattara Nakano
 udi naradeno haradatasii ni tigainai.

Nakano Udi no Kōgo wo sono mama tukatte'

$$(1) \quad y^{(n)} + p_1(x) y^{(n-1)} + \dots + p_n(x) y = 0$$

no Keisū $p(x)$ ga Kukan (a, b) de renzoku da to si, sono n -kono dokurituna Kai wo $u_1(x), \dots, u_n(x)$ to sureba (1) no Kai wa

$$(2) \quad y = (Z_1 + \lambda Z'_1) u_1(x) + \dots + (Z_n + \lambda Z'_n) u_n(x)$$

no Katati ni kakeru. λ wo koteisite okeba

$$(Z_1 + \lambda Z'_1) u_1(x) + \dots + (Z_n + \lambda Z'_n) u_n(x)$$

wa $2n$ -zigenno Kūkan ni okeru $(2n-2)$ -zigenno Heimen de aru.

λ wo a kara b -made henkwasaseru koto ni yotte, sonoyōna Heimen ga ∞ -kerarereru. Kono ∞ -kono $(2n-2)$ -zigenno Heimen ni hukumarenai $2n$ -zigenno Kūkan no Ten wo (Z, Z') to sureba (2) ga Kukan (a, b) de 0 ni naranai (1) no Kai ni naru. Kore dewa genmituna Syōmei ni natte inai ga, kore dake de zyūbunni Yōsu wa wakaru to omou. λ wo Hukuso-ryōiki no Hensūto sitari, Keisū ga zitu de aru toki zituno Kai dake kangaetari sitan'dewa, naze Teiri ga seiritusinaku naru ka nado mo. Yōsuruni Zigen no Kwankei ni suginai. Genmituna Syōmei to site wa osoraku Nakano Udi no mono ga kantan de arō.

$u_1(x), \dots, u_n(x)$ ni kwansite taisyōna Katati no Syōmei mo eyō to sureba erareyōga, yori kantanni naru ka dōka wa siranai. Boku wa Nakano Udi no kongono Go-kenkyū ni Kitai wo motitai.

正誤 OMOTUITA MAMA (4号, Hukuhara-Masuo)

6頁 7行ト8行ト、間： wa Teido wo sageru to in koto dyā nai, Mukasii koto, wakarinikuni koto ヲ補フ。

8行. Wo , 次 " yasasiku 7" ス,

7頁 13行. Secsū , 次 = n 4 脱ケテ居マス,